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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/534,589	03/22/2006	Choon-Keun Hong	11281-068-999	4444
20583 JONES DAY	7590 11/04/201	0	EXAMINER	
222 EAST 41S			HOFFMANN, JOHN M	
NEW YORK, NY 10017			ART UNIT	PAPER NUMBER
			1741	
			MAIL DATE	DELIVERY MODE
			11/04/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Comments	10/534,589	HONG ET AL.				
Office Action Summary	Examiner	Art Unit				
	John Hoffmann	1741				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence add	dress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 9/20/.	2010					
· <u> </u>	-					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
ologica in addordance with the practice and i	x parte gadyle, 1000 C.D. 11, 40	0.0.210.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-4 and 6-14</u> is/are pending in the app	olication.					
4a) Of the above claim(s) is/are withdrav	vn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-4 and 6-14</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	priority under 35 LLS C & 110(a)	-(d) or (f)				
a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 G.G.G. § 115(a)	-(a) or (i).				
·— <u> </u>						
2. Certified copies of the priority documents		on No				
	• •	<u> </u>	Stage			
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
dee the attached detailed office action for a list of	or the definited depicts flot redelive	u.				
Attachmont/s)						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO_412)				
2) Notice of Praftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summary Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P	atent Application				
Paper No(s)/Mail Date	6)					

DETAILED ACTION

Drawings

Figures 1a, 4a and 7-9 should be designated by a legend such as --Prior Art--because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Examiner apologizes for not noticing this previously.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-4 and 6-14 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

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There is no support keeping the tube "within said range of diameters at said time by controlling the collapse rate and the etching rate..." as now recited in claim 1. Page 12, lines 17-18 clearly states that the keeping of the range is "just after the etching/collapsing process, namely just before a closing process". In other words claim 1 requires the diameter is kept within the range during step 300a as shown in Applicant's figure 1b. But page 12 clearly discloses it occurs after 300a and before 400. Furthermore, page 11, lines 1-3 shows the inner diameter is reduced during the etching/collapsing step. See also figure 4b and page 10, line 23 of the application as filed.

Response to Arguments

Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

It is argued that none of the references disclose how the diameter of the tube just after the etching and collapsing process and just before a closing process is to be maintained in the range of 2-4 mm. This is not very relevant because this limitation (while disclosed on page 12) is not required by the claims. Rather claim 1 recites that diameter of the tube occurs at "said time" which refers back the etching and collapsing "at the same time". Furthermore, the present application also does not disclose "how" the diameter is kept constant – so it does not appear relevant that the art does not disclose "how".

Allowable Subject Matter

Although no prior art rejection is currently made, such should not be misconstrued as a suggestion that the application contains allowable subject matter. Nevertheless, if it can be demonstrated that there is support for the invention as now claimed (i.e. that the 35 USC 112 rejection is improper) then the claims would be allowable since the prior art does not reasonably disclose or suggest keeping the inner diameter in the 2-4 mm range during a collapse/etch time as now claimed.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Hoffmann whose telephone number is (571) 272 1191. The examiner can normally be reached on Monday through Thursday, roughly 9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Daniels can be reached on 571-272-2450. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

John Hoffmann Primary Examiner Art Unit 1741

/John Hoffmann/ Primary Examiner, Art Unit 1741